

NEW COLLECTION



# Hybrid Inverter

Designed For Air Conditioner



Max 80%  
Energy Saving



Easy  
Installation



Compact



[www.solarmarketegypt.com](http://www.solarmarketegypt.com)

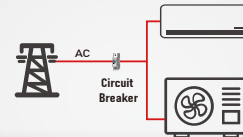
Transform Air Conditioner Into Hybrid Solar Air Conditioner



# Hybrid Inverter

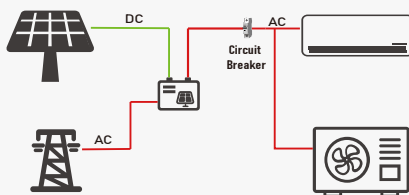
Transform your regular air conditioner into a hybrid solar air conditioner with our product. It seamlessly adds a PV power supply without any changes to your existing setup. By combining grid electricity with PV energy, it delivers stable, reliable power for your air conditioner. Versatile and scalable, a single unit can upgrade one air conditioner or your entire home's system, paving the way for significant energy savings.

Before

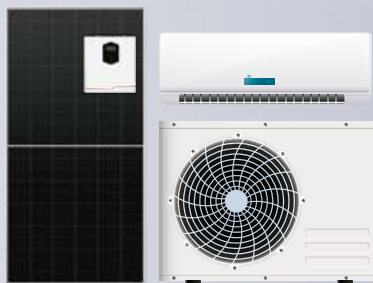
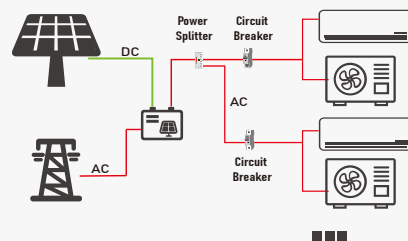


After

## Single-unit Transformation



## Multi-unit Transformation



After transformation



Max 80% Energy Saving



AC Power Supply  
(220V50/60HZ)



DC Power Supply  
(80VDC-380VDC)



AC+DC Mix Power



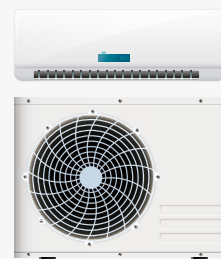
App Smart Control



AC/DC Auto-Balance



Soft Power Start



Before transformation



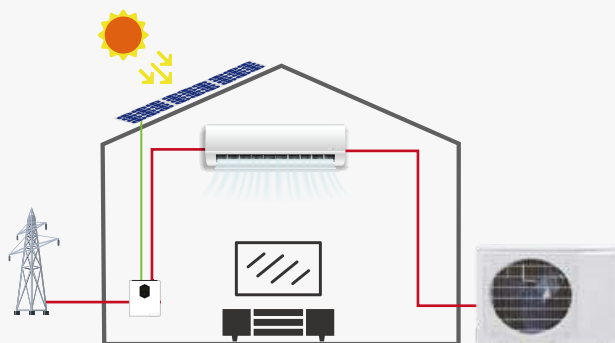


## OPERATING MODE

1

### DC only

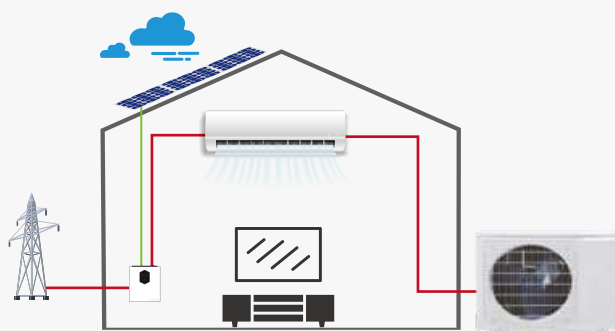
When the PV power meets the operating power of the air conditioner, the solar hybrid Inverter can be powered by solar energy only. This results in 100% energy savings.



2

### AC+DC

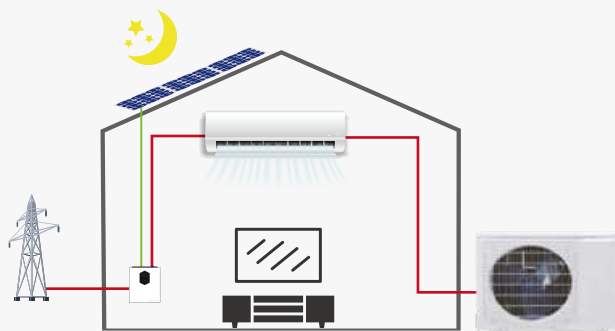
When the sunshine is not sufficient, such as in the morning or a cloudy day, the solar hybrid Inverter will prioritize using PV electricity. Any shortfall will be supplemented by the power grid.



3

### AC only

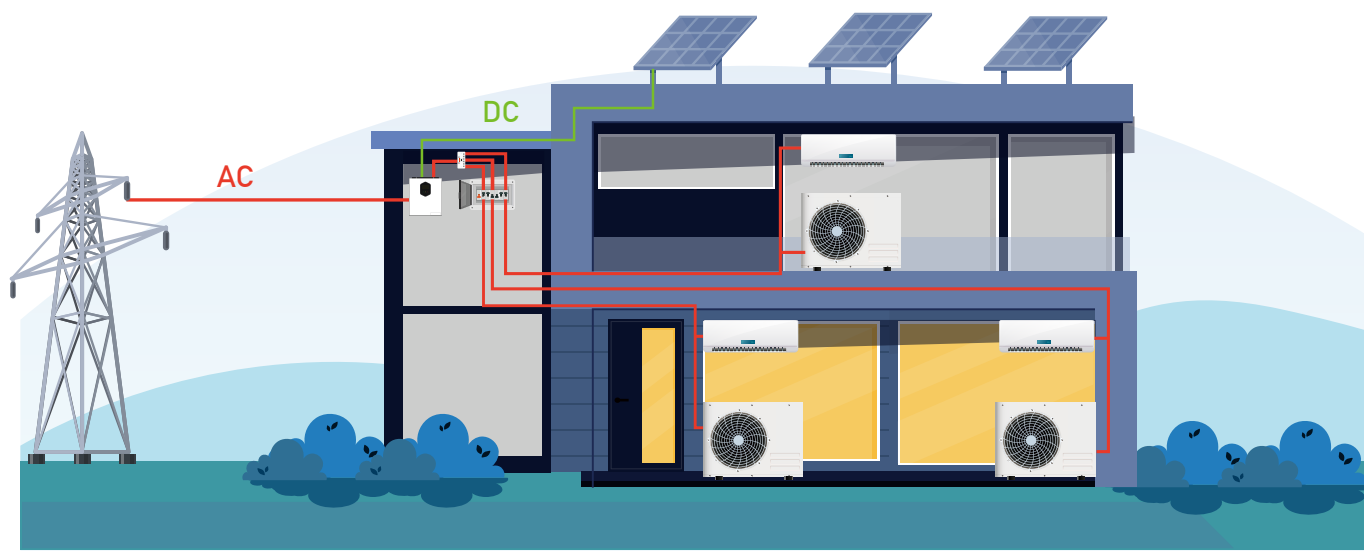
During the night, the solar hybrid Inverter consumes electricity from the power grid and operates on the same principle as a regular inverter.



## INSTALLATION METHOD

Simply connect one string of PV power and mains power to the hybrid Inverter – its output links directly to your home distribution Inverter, with no changes needed to your air conditioner's original installation!

When transforming multiple air conditioners, a Power splitter needs to be installed to achieve one input and multiple outputs.



## PRODUCT SPECIFICATION

| Hybrid Inverter |                                |                                                                                             |          |          |
|-----------------|--------------------------------|---------------------------------------------------------------------------------------------|----------|----------|
| Capacity        | 6.2kW                          |                                                                                             |          |          |
| AC Input        | Input format                   | L+N+PE                                                                                      |          |          |
|                 | Rated input voltage            | 220/230/240VAC                                                                              |          |          |
|                 | Voltage range                  | 90V-280VAC±3V Normal Model                                                                  |          |          |
|                 | Frequency range                | 50/60Hz ±0.1% （Auto-adaptive）                                                               |          |          |
| PV Input        | PV Operating Range             | 60-500Vdc                                                                                   |          |          |
|                 | Max PV Input Power             | 9000W                                                                                       |          |          |
|                 | Optimal Vmp Range              | 300-400Vdc                                                                                  |          |          |
|                 | Max PV Input Voltage           | 500Vdc                                                                                      |          |          |
|                 | Max PV Input Current           | 27A                                                                                         |          |          |
| Output          | Rated power                    | 6200W                                                                                       |          |          |
|                 | Output voltage                 | 220/230/240VAC ±5%                                                                          |          |          |
|                 | Output frequency               | 50/60Hz ±0.1%                                                                               |          |          |
| System Config   | Load Type                      | 12000BTU                                                                                    | 18000BTU | 24000BTU |
|                 | Number of PV panels per unit   | 600W*3                                                                                      | 600W*4   | 600W*5   |
|                 | Max Number of Load             | 3                                                                                           | 2        | 2        |
| Display         | Interface LCD                  | Can display running mode/load/input/output, etc                                             |          |          |
| Interface       | Expansion slot communication   | WIFI Card, CT Detection, etc                                                                |          |          |
| Environment     | Ambient temperature            | -10-50℃                                                                                     |          |          |
|                 | Operating environment gumidity | 20%-95% （No condensation）                                                                   |          |          |
|                 | Storage temperature            | -15-60℃                                                                                     |          |          |
|                 | Altitude                       | The altitude should not exceed 1000m, derating over 1000m, 4000m max, according to IEC62040 |          |          |
|                 | Noise                          | ≤50db                                                                                       |          |          |
| Size            | 318×277.6×120mm                |                                                                                             |          |          |
| Package         | 380×335×173mm                  |                                                                                             |          |          |
| Gross Weight    | 5.48Kg                         |                                                                                             |          |          |



### Solar Market Egypt

Telephone/Whatsapp: +20 106 405 5523  
 For suggestions or technical issues contact us at:  
[technical-support@solarmarketegypt.com](mailto:technical-support@solarmarketegypt.com)  
[www.solarmarketegypt.com](http://www.solarmarketegypt.com)